

**AMENDMENTS TO THE SPECIFICATION**

**Page 1, paragraph 6 , which bridges over to page 2:**

C1 By, for old fashioned terminals, locating said preprocessing unit between said terminal, not comprising any preprocessing unit, and ~~between~~ said final processing unit (before said switching takes place), whereby in case of a novel terminal already comprising such a preprocessing unit, this locating of an extra preprocessing unit is not to be done, said switching can be done independently of said terminal being old fashioned or novel.

**Page 2, first full paragraph:**

C2 The invention is based on the insight, inter alia, that functions like preprocessing and final processing can be shifted, as long as their ~~subsequencey~~ relative positions are not changed.

**Page 2, paragraph 2:**

C3 The invention solves the problem, inter alia, of allowing the switching of terminals independently of a terminal being of a first kind (novel) and comprising said preprocessing unit or of being of a second kind (old fashioned) and not comprising said preprocessing unit.

**Page 2, paragraph 7, which bridges over to page 3:**

C4 A third embodiment of the telecommunication system according to the invention is characterised in that said terminal is a wired terminal system (analog, ADSL, xDSL, ISDN, etc.) or a wireless terminal system (DECT), with said switch being a switch for fixed communication coupled to said terminal system via a ~~fysical~~ physical connection.

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**Page 3, paragraph 1:**

C5 A fourth embodiment of the system according the invention is characterised in that said terminal is a mobile terminal (GSM, CTS, UMTS, GPRS etc.), with said switch being a switch for fixed communication coupled via ~~fysieal~~physical connections to a mobile switching center (MSC etc.) and a base station (BTS etc.) for mobile communication with said mobile terminal.

**Page 3, paragraph 5:**

C6 A second embodiment of the switch according to the invention is characterised in that said terminal is a wired terminal system or a wireless terminal system, with said switch being a switch for fixed communication coupled to said terminal system via at least one ~~fysieal~~physical connection.

**Page 3, paragraph 6:**

C7 A third embodiment of the switch according to the invention is characterised in that said terminal is a mobile terminal, with said switch being a switch for fixed communication coupled via at least one ~~fysieal~~physical connection to a mobile switching center and a base station for mobile communication with said mobile terminal.

**Page 4, paragraph 2:**

C8 The document US 5,809,464 discloses a distributed voice recognition system. The document US 5,012,518 discloses a low ~~bitrate~~bit-rate speech coder. The document US 4,991,217 discloses a dual processor speech recognition system. All references including further references cited in or with respect to said references (like for example US 5, 231,670) are considered to be incorporated.

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Brief Description of the ~~Drawings~~ Drawing

C8

The single drawing figure is a block diagram illustrating the invention.

Detailed Description of the Invention

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**Page 4, paragraph 3:**

~~The invention will be further explained at the hand of an embodiment described with respect to a drawing, whereby~~

**Page 4, paragraph 4:**

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C9  
The drawing figure 1 discloses illustrates a telecommunication system according to a preferred embodiment of the invention, and comprising: a switch 9; ~~according to the invention and comprising~~ a first mobile (novel) terminal 1 of a first kind being provided with a first preprocessing unit 11; ~~and~~ a second mobile (old fashioned) terminal 2 not being provided with a preprocessing unit; ~~and~~ a ~~third~~ fixed third (novel) terminal 3 being provided with a ~~third~~ second preprocessing unit 13; and a ~~fourth~~ fixed fourth (old fashioned) terminal 4 not being provided with a preprocessing unit. Said switch 9 is coupled at a first side with a Mobile Switching Center or MSC 7 via a connection ~~7~~ 17 and with a MSC 8 via a connection 18 and with terminal 3 via a connection 19 and with terminal 4 via a connection 20. MSC 7 is further coupled via a connection 15 to basestation or BS 5 for radio communication with terminal 1, and MSC 8 is further coupled via a connection 16 to BS 6 for radio communication with terminal 2. Said switch 9 is at a second side coupled to a final processing unit ~~server~~ 10, usually being in the form of a server. Switch 9 comprises according to the invention a ~~second~~ third preprocessing unit 12,

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C9 coupled ~~with~~ to the MSC 8 via a connection 18, and ~~comprises~~ a fourth preprocessing unit 14 coupled ~~with~~ to the fixed fourth terminal via a connection 20.

**Page 5, paragraph 1:**

C10 According to prior art, the telecommunication system shown in the drawing figure-1 functions as follows. As for example disclosed in US 5,809, 464 defining a distributed voice recognition system, a mobile novel terminal will be provided with a preprocessing unit like for example a feature extractor, which is located between a microphone and a transmitter coupled to an antennae. Said feature extractor extracts features from input speech provided to said microphone. These features are transmitted (analog, GSM-900, GSM-1800, CTS, UMTS, GPRS, always-on IP-connection using for example GPRS etc.) via a base station and a mobile switching center and a switch for fixed communication to a final processing unit like for example a word decoder, which generates a linguistic estimate of said speech. Of course, said preprocessing unit like for example said feature extractor should be as close to said microphone as possible, and said final processing unit like for example said word decoder should be there where sufficient processor capacity is available. As a consequence, the available bandwidth between preprocessing unit and final processing unit is used most efficiently. A fixed novel terminal system (wired: analog, ADSL, xDSL, ISDN, or wireless: DECT) will also be provided with a preprocessing unit like for example a feature extractor, which is coupled to a microphone. Said feature extractor extracts features from input speech provided to said microphone. These features are transmitted via a ~~physical~~ physical connection (analog, ADSL, xDSL, ISDN, always-on IP-connection using for example a higher frequency band of ADSL or xDSL or using for example a

C10 D-channel of ISDN etc.) and a switch for fixed communication to a final processing unit like for example a word decoder, which generates a linguistic estimate of said speech, etc.

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**Page 5, paragraph 2, which bridges over to page 6:**

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**Detailed Description of the Invention**

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C11 According to the invention, the telecommunication system shown in the drawing figure-1 further comprises a mobile old fashioned terminal 2 not being provided with a preprocessing unit and comprises a fixed old fashioned terminal (system) 4 not being provided with a preprocessing unit. To overcome the problem, inter alia, that for example switch 9 should switch calls with terminal 1 (or 3) via final processing unit 10 on the one hand, and that switch 9 should switch calls with terminal 2 (or 4) not via final processing unit 10, switch 9 has been provided with second preprocessing unit 12 coupled to connection 18 and with fourth preprocessing unit 14 coupled to connection 20. As a result, either in a terminal or in a switch before the switching takes place or between said terminal and said switch, preprocessing is done for each terminal, and said switch no longer needs to treat certain calls differently from other calls, which is a great advantage.

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